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TORREYA

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THE FLORA OF THE TOWN OF SOUTHOLD, LONG ISLAND AND GARDINER'S ISLAND

BY STEWART H. BURNHAM AND ROY A. LATHAM

SECOND SUPPLEMENTARY LIST*

The following local observers have assisted in this list, by collecting or reporting unusual species; therefore establishing many new records and also new stations for species already reported in the two preceding lists. Mrs. F. R. Mitchell of Southold is specially mentioned for kindness in allowing a study of her long and interesting list of plants collected by herself and the late Mr. Mitchell, mostly in the vicinity of Southold, a decade or more ago. Mrs. Frank D. Smith of Peconic, Miss Mabel R. Wiggins of East Marion and William C. Ferguson of Hempstead should be mentioned. The following botanists have visited and collected in the region: Mrs. Agnes Chase, Mr. Wm. T. Davis, Mr. Norman Taylor and others.

INSECT GALLS†

Asteromyia carbonifera Felt—On leaves of *Euthamia tenuifolia*.
Caryomyia tubicola O.S.—On leaves of *Hicoria glabra* at Cutchogue.
Cecidomyia verrucicola O.S.—On leaves of *Tilia americana* at Southold.
Dasyneura Lysimachiae Beutm.—On *Lysimachia quadrifolia* at Orient.
Disholcaspis mamma Walsh—On twigs of *Quercus velutina* at Greenport.
Eriophyes Cephalanthi Cook—Greenport on leaves of *Cephalanthus occidentalis*.
E. semen Walsh—Orient on leaves of *Salix*.
Hormomyia canadensis Felt—Cutchogue on leaves of *Amelanchier oblongifolia*.
Lasioptera clavula Beutm.—On twigs of *Cornus* at Cutchogue, Greenport and Southold.

[No. 6, Vol. 20, of TORREYA, comprising pp. 107-140, was issued 7 February 1921]

* The preliminary flora was published in TORREYA 14: 201-225. Nov. 1914, and 229-254. Dec. 1914. The First Supplementary List was published in Torrey 17: 111-122, July 1917.

† The majority of these galls were named by Dr. E. P. Felt, state entomologist of the State of New York.

L. nodulosa Beutm.—Orient on stems of *Rubus*.

Livia maculipennis Fitch.—On the inflorescence of *Juncus canadensis*.

Neolasioptera ramuscula Beutm.—On stems of *Doellingeria umbellata* at Orient.

Phylloxera Caryaesemen Walsh.—Orient on the under surface of the leaves of *Hicoria glabra*.

Rhabdophaga strobiloides Walsh.—On the tips of branches of *Salix humilis* at Peconic.

Rhopalomyia hirtipes O.S.—On aerial stems of *Solidago juncea* at Cutchogue and Peconic.

EUPHYCEAE

Antithamnion americanum (Harv.) Farl.—In the Sound at Orient; determined by Dr. M. A. Howe.

Nitella intermedia Nordst.—Great Pond, Southold; determined by Dr. Howe who has examined specimens twice, and says, "this species or something close to it."

PHYCOMYCETES

Empusa americana Thaxt.—On blow-flies, *Calliphora vomitoria* at Orient; determined by Prof. John Dearness. Many thousands of these flies are killed by this fungus during cold, wet spells in the summer. They are usually found clustered on the softer parts of grape vines.

Rhysotheca Haldstedii (Farl.) Wils.—On leaves of *Helianthus* in woods at Orient; determined by Prof. Dearness.

ASCOMYCETES (EXCLUDING PYRENOAMYCETES)

Cudoniella marcida (Müll.) Sacc.—On earth in rich woods at Cutchogue. September. Determined by Dr. C. G. Lloyd as *Leotia marcida* Pers.: Mycol. Notes 63: 964. May 1920.

Geoglossum Farlowi Cke.—On earth in rich woods at Greenport. October. Determined by Dr. Lloyd who says "it is a very rare plant with spores 3-septate, 80 mic. long in these." It is difficult to believe, however, that it is other than a spore variation of the more common *Geoglossum hirsutum* Pers.

Peziza odorata Pk.—On ashes in a cellar at Orient; determined by Dr. Charles E. Fairman.

Phialea scutula (Pers.) Gill.—On dead herbaceous stems at Orient; determined by Dr. Fairman.

Pseudophacidium Betulae Rehm.—On twigs and small branches of *Betula populifolia* at Orient. Spring. Determined by Dr. Fairman, who says the find is noteworthy; and confirmed by Dr. E. J. Durand, who reports that it agrees with Rehm's Ascomyceten No. 866 in his herbarium.

Tapesia sanguinea (Pers.) Fekl.—On wood of *Juniperus virginiana* at Orient; determined by Dr. Fairman.

ASCOMYCETES (PYRENOAMYCETES)

Anthostoma gastrinum (Fr.) Sacc.—On dead branches of *Amelanchier canadensis* at Orient; determined by Prof. Dearness.

- Botryosphaeria fuliginosa* (M. & N.) E. & E.—Orient on stems of *Smilax rotundifolia*; determined by Prof. Dearness. No. 2107.
- Camarosporium Robiniae* (West.) Sacc.—Orient on *Robinia Pseudo-acacia*, associated with *Cucurbitaria elongata* (Fr.) Grev. No. 702. N. Y. State Mus. Bull. 197: 25. 1918.
- Cryptospora aculeans* (Schw.) E. & E.—On stems and twigs of *Rhus copallina* and *Toxicodendron radicans* at Orient; determined by Prof. Dearness.
- Diaporthe* (*Chorostate*) *cercophora* (Ell.) Sacc.—On dead twigs and branches of *Celtis occidentalis* at Orient; determined by Prof. Dearness.
- Diaporthe* (*Euporthe*) *cryptica* Nitschke—Orient on stems of *Lonicera japonica*; determined by Prof. Dearness.
- Diaporthe* (*Euporthe*) *euspina* (C. & E.) Sacc.—Base of stems of *Chenopodium ambrosioides* at Orient; determined by Prof. Dearness.
- Diaporthe* (*Chorostate*) *oryspera* (Pk.) Sacc.—On twigs and branches of *Ilex verticillata* at Orient. N. Y. State Mus. Bull. 197: 38. 1918. (*Diaporthe ocularia* (C. & E.) Sacc.)
- Diatrype Baccharidis* Earle—Orient on stems and branches of *Baccharis halimifolia*; determined by Prof. Dearness. No. 4033.
- D. disciformis* (Hoffm.) Fr.—On branches of *Myrica caroliniensis* at Orient; determined by Prof. Dearness.
- Diatrypella verruciformis* (Ehrh.) Nitschke—On trunks of *Myrica caroliniensis* at Orient; determined by Dr. Fairman.
- Didymosphaeria Celtidis* E. & E.—On twigs of *Celtis occidentalis* at Orient; determined by Prof. Dearness.
- Dothidea collecta* (Schw.) E. & E.—Orient on twigs of *Iva frutescens*; determined by Prof. Dearness.
- Erysiphe Cichoracearum* DC.—On leaves and stems of *Plantago Rugelii* at Orient; determined by Dr. Fairman.
- Eutypa leucostroma* (Mont.) Sacc.—On stems of *Smilax rotundifolia* at Orient; determined by Dr. Fairman.
- E. sepulta* (B. & C.) E. & E.—Orient on stems of *Smilax rotundifolia*; determined by Prof. Dearness.
- Eutypella cerviculata* (Fr.) Sacc.—On branches of *Celtis occidentalis* at Orient; determined by Prof. Dearness.
- E. Gleditschiae* Berl.—On dead twigs of *Gleditschia triacanthos* at Orient. No. 724. N. Y. State Mus. Bull. 197: 29. 1918.
- E. scoparia* (Schw.) E. & E.—Orient on twigs of *Robinia Pseudo-acacia*; determined by Prof. Dearness. No. 1041.
- E. venusta* (Ell.) Sacc.—Orient on twigs of *Robinia Pseudo-acacia*; determined by Prof. Dearness. No. 1198.
- Gibberella pulicaris* (Fr.) Sacc.—On stalks of *Zea Mays* at Orient; determined by Dr. Fairman.
- Glioniella ovata* (Cke.) Sacc.—On decorticated and weathered wood of *Castanea dentata* at Orient. "The type of this species (collected by Ravenel in Carolina) is said to be on oak." No. 824. N. Y. State Mus. Bull. 205-206: 51. 1919.
- Glioniopsis Cookeana* (Ger.) Sacc.—Orient on dead wood of *Quercus alba*,

- dead branches of *Myrica caroliniensis*, dead decorticated branches of *Rhus glabra* and *Xolisma ligustrina*. N. Y. State Mus. Bull. 197: 39. 1918.
- Guignardia Bidwellii* (Ellis) Viala & Ravaz—On fruit of cultivated grapes; determined by Prof. Dearness and Dr. Fairman. It is associated with *Phoma uvicola* B. & C. which Rostrup states is a stage of *Guignardia Bidwellii*.
- Hypocrea rufa* (Pers.) Fr.—A Corticium-like plant growing on oak; determined by Prof. Dearness. No. 3387.
- Hypoxyton multifforme* Fr.?—On wood of *Quercus velutina* at Orient; determined by Dr. Lloyd (printed): Letter 67: 7. July 1918.
- H. rubiginosum* (Pers.) Fr.—Orient on dead branches of *Rhus copallina*; determined by Prof. Dearness.
- Hysterographium Lesquereuxii* (Duby) Sacc.—On dead branches of *Gleditschia triacanthos* at Orient. N. Y. State Mus. Bull. 197: 30. 1918.
- H. Vaccinii* (Schw.) Fairman—This combination was made in the First Supplementary List in Torreya 17: 113. July 1917: but was wrongly spelled *Hysteriographium Vaccinii*.
- Massaria conspurcata* (Wallr.) Sacc.—On twigs of *Padus virginiana* (*Prunus serotina* Ehrh.) at Orient. Determined by Dr. Fairman, who says, "spores $60-65 \times 13.5-14 \mu$." According to Ellis & Everhart, your specimen has spores agreeing more with those distributed by Dr. Rehm (in his Ascomyceten) than what Ellis noted in this country. That is, they are about the same width as foreign specimens and wider than those usually found here.
- Massarinula Brassicae* Dearn. & House—On dead stems of Brussels Sprouts, *Brassica oleracea gemmifera*, at Orient. September 1915. Type in the herbarium of the N. Y. State Museum. Described in N. Y. State Mus. Bull. 197: 31. 1918.
- Microsphaera Alni* (Wallr.) Salmon—The var. *Vaccinii* (Schw.) Salmon on leaves of *Vaccinium corymbosum* at Orient; determined by Prof. Dearness.
- Phyllachora Graminis* (Pers.) Fckl.—The var. *Panici* (Schw.) Spear on leaves of *Panicum clandestinum*, common throughout the town; determined by Prof. Dearness.
- P. Pteridis* (Reb.) Fckl.—On fronds of *Pteridium aquilinum* at Mattituck; determined by Prof. Dearness.
- Pyrenophora calvescens* (Fr.) Sacc.—On *Chenopodium ambrosioides*; determined by Prof. Dearness.
- Rosellinia protuberans* Karst.—Orient on wood of *Baccharis halimifolia*; determined by Dr. Fairman.
- R. pulveracea* (Ehrh.) Fckl.—On twigs of *Celtis occidentalis*; determined by Prof. Dearness.
- Sphaerella pardalota* C. & E.—Orient on old leaves of *Myrica caroliniensis*; determined by Dr. Fairman.
- Trematosphaeria nuclearia* (DeNot.) Sacc.—On decaying nuts of *Hicoria glabra* at Orient; determined by Prof. Dearness. No. 1202.
- Valsa Liquidambaris* (Schw.) Cke.—On dead stems of *Hamamelis virginiana* at Orient. "A new host species. The asci are $30-33 \times 8 \mu$, the spores eight in an ascus, $8-9 \times 2 \mu$, hyaline, allantoid." N. Y. State Mus. Bull. 197: 45. 1918.

V. Pini (A. & S.) Fr.—On dead bark and twigs of *Pinus Strobus* at Greenport; determined by Prof. Dearness. The fallen trunk of one tree that had been cut about a year was completely covered with this species, abundantly fruiting.

V. subclypeata C. & P.—Orient on dead branches of sassafras; determined by Prof. Dearness.

Xylaria corniformis Fr.—On buried roots of *Quercus velutina* at Orient; determined by Dr. Lloyd (printed): Letter 66: 4. Oct. 1917.

HYPOMYCETES

Cercospora Acalyphae Pk.—Orient on leaves of *Acalypha gracilens*; determined by Prof. Dearness.

C. circumscissa Sacc.—Common at Orient on leaves of *Padus virginiana* (*Prunus serotina*); determined by Prof. Dearness.

C. copallina Cke.—Cutchogue on leaves of *Rhus copallina*; determined by Prof. Dearness who says, "this is likely only a synonym of *Cercospora rhoina* C. & E."

C. rhoina C. & E.—On leaves of *Rhus copallina* at Cutchogue; determined by Prof. Dearness.

Cladosporium herbarum (Pers.) Link—Orient on leaves of *Hemerocallis fulva*; determined by Prof. Dearness.

Exosporium Tiliae Link—Orient on dead branches and trunks of *Tilia vulgaris*; determined by Prof. Dearness.

Fusarium Celtidis Ell. & Tracy—Orient on twigs of *Celtis occidentalis*; determined by Prof. Dearness.

MELANCONIALES

Cylindrosporium Iridis E. & H.—On living leaves of *Iris versicolor* at Orient. N. Y. State Mus. Bull. 197: 27. 1918.

Gloeosporium Opuntiae E. & E.—On leaves of *Opuntia*; determined by Dr. Fairman. Large patches of the Eastern Prickly Pear have been killed by this fungus at Orient.

Marsonia Potentillae (Desm.) Fisch.—Greenport on leaves of *Potentilla canadensis*; determined by Dr. House.

Melanconium betulinum Schm. & Kze.—On twigs of *Betula populifolia* at Greenport; determined by Dr. Fairman.

Pestalozzia uncinata Ell. & Kell.—On leaves of *Quercus velutina*; determined by Dr. House.

Stagonospora Chenopodii Pk.—(*Phleospora Chenopodii* E. & K.) On leaves of *Atriplex hastata*, common at Orient; determined by Prof. Dearness.

Steganosporium acerinum Pk.—Orient on dead branches of *Acer Pseudo-Platanus*. Determined by Prof. Dearness who says, "may be a synonym of *Steganosporium piriforme* (Hoffm.) Cda.: Mr. Ellis used to call the larger spore form *S. cellulorum* Cda. and the smaller spore form *S. piriforme*. The spores are $36 \times 18 \mu$."

SPHAEROPSIDAE

- Coniothyrium concentricum* (Desm.) Sacc.—On leaves of cultivated *Yucca* at Orient; determined by Prof. Dearness.
- Leptostromella Chenopodii* Dearn. & House—Orient on dead stems of *Chenopodium album*. Described in N. Y. State Mus. Bull. 205-206: 53-54. 1919.
- Macrophoma celtidicola* Dearn. & House—Orient on twigs of *Celtis occidentalis*; determined by Prof. Dearness.
- Phlyctaena arcuata* Berk.—Orient on dead stems of *Helianthus annuus*. No. 726. "Spores filiform arcuate to falcate, 25μ long." N. Y. State Mus. Bull. 205-206: 55. 1919.
- Phoma Celtidis* Cke.—On twigs of *Celtis occidentalis*; determined by Prof. Dearness. No. 3388.
- Phyllosticta Chenopodii* Sacc.—On leaves of *Chenopodium album* at Orient; determined by Dr. Fairman.
- P. Kalmicola* Schw.—Greenport on leaves of *Kalmia latifolia*; determined by Prof. Dearness.
- Phyllosticta limitata* Pk.—On leaves of apple, *Malus*; determined by Prof. Dearness. Very abundant throughout the town during the summer of 1919: and practically defoliating some trees.
- P. minima* (B. & C.) E. & E.—Laurel on leaves of *Acer rubrum*; determined by Dr. Fairman.
- P. Sassafra* Cke.—On leaves of *Sassafras*, common throughout the township. Determined by Prof. Dearness who says, "Ellis and Everhart in their North American *Phyllostictas* say the specimens available for examination are all sterile and that the species must be put in the doubtful class. The spots on some of these leaves have pycnidia with the small spores of the description; but most of the spots are sterile."
- Septoria brunneola* (Fr.) Niessl.—Cutchogue on leaves of *Vagnera racemosa*; determined by Prof. Dearness.
- S. Macrosporia* Dearn.—On leaves of *Chrysanthemum Leucanthemum* at Orient. Prof. Dearness says, "externally it is exactly like it but the spores fall short in average size."
- S. mollisia* Dearn & House—Mattituck on leaves of *Antennaria plantaginifolia*; determined by Prof. Dearness, who says this may be the same as Fairman's *Septoria lanaria*.
- S. Polygonorum* Desm.—Orient on leaves of *Persicaria Persicaria*; determined by Prof. Dearness.
- S. Stellariae* Rob. & Desm.—On leaves of *Alsine media* at Orient. Determined by Prof. Dearness who says, "the same as Fungi Columb. No. 775, which Mr. Ellis named as the above. It is not very distinct from *Septoria Silenicola* Ell. & Mart."
- S. Violae* West.—Greenport on leaves of *Viola cucullata*; determined by Prof. Dearness.
- Sphaeronema Robiniae* B. & C.—On twigs and branches of *Tilia americana* at Orient; determined by Prof. Dearness.

- Sphaeropsis Celtidis* E. & E.—On twigs of *Celtis occidentalis* at Orient. No. 3561. Determined by Dr. Fairman who says, "Cfr. Am. Nat. 428. 1897 and Saccardo Syl. 14: 921. I have never had this before: it was originally named from a specimen collected by Bartholomew on *Celtis occidentalis* in Kansas."
- S. Syringae* C. & E.—Orient on twigs of *Syringa vulgaris*; determined by Dr. Fairman.
- Vermicularia herbarum* West.—On old stems of *Geranium maculatum* at Orient; determined by Prof. Dearness.

USTILIGINACEAE

- Sorosporium Syntherismae* (Pk.) Farl.—Orient on *Panicum dichotomiflorum*; determined by Dr. G. P. Clinton.

UREDINACEAE*

- Peridermium Peckii* Thüm.—Common. On *Azalea viscosa* at Greenport, Peconic and Southold. On *Gaylussacia baccata* at Cutchogue. (*Pucciniastrum Myrtilli* (Schum.) Arth.)
- P. pyriforme* Pk.—Found sparingly during August on leaves of *Comandra umbellata* at Mattituck. (*Cronartium Comandrae* Pk.)
- Pucciniastrum Agrimoniae* (Schw.) Tranz.—Orient on leaves of *Agrimonia gryposepala*.
- P. Pyrolae* (Pers.) Diet.—Southold on *Chimaphila maculata*; but one collection found.

PUCCINIACEAE

- Puccinia Anemones-Virginianae* Schw.—On leaves of *Anemone Virginiana* at Indian Neck, Peconic. August.
- P. Circaeae* Pers.—Orient on leaves of *Circaea Lutetiana*.
- P. Ellisiana* Thüm.—Orient on *Schizachyrium scoparium*. November.
- P. investita* Schw.—On *Gnaphalium obtusifolium* at Cutchogue, Orient and Peconic. August.
- P. minutissima* Arth.—Mattituck on stems and leaves of *Decodon verticillatus*. August. Very common in one swamp and forming large swellings on stems and the midveins of leaves. (*Aecidium Nesaee* Ger.)
- P. patruelis* Arth.—On leaves of *Lactuca canadensis* at Orient. June. Dr. Arthur says, "lately has been called *Puccinia hieraciata* (Schw.) Jackson. This is rather a rare rust in New York and in fact throughout the Atlantic states: but is very common in the interior. It has telia on various species of *Carex*."
- Uromyces Hyperici-frondosi* (Schw.) Arth.—Gardiner's Island on leaves of *Hypericum mutilum*; determined by Burnham.
- U. Lespedezae-procumbentis* (Schw.) Curt.—On *Lespedeza capitata* at Cutchogue, Peconic and Southold. On *Lespedeza virginica* at Cutchogue. Locally common at these stations. (*Nigredo Lespedezae-procumbentis* (Schw.) Arth.)

* Unless otherwise stated the Rusts were determined by Dr. J. C. Arthur.

U. Polemonii (Pk.) Barth.—N. Y. State Mus. Bull. 197: 13. 1918, as a contribution; probably on *Spartina stricta alterniflora*.

TREMELLACEAE

Dacryomyces deliquescens (Bull.) Duby—On old wood of *Juniperus virginiana*; determined by Dr. Lloyd: Mycol. Notes 63: 964. May 1920.

Exidia recisa Fr. On branches of *Quercus velutina* at Orient; determined by Dr. Lloyd: Mycol. Notes 63: 964. May 1920.

Naematelia nucleata (Schw.) Fr.—On old bark of *Quercus velutina*; determined by Dr. Lloyd (printed): Letter 66: 4. Oct. 1917.

THELEPHORACEAE

Aleurodiscus nivosus (B. & C.) v. Höhn & Litsch.—On bark of *Juniperus virginiana* at Orient. No. 189. (In Mo. Bot. Gard. Herb., 44228) (*Stereum acerinum* Pers., var. *nivosum* B. & C.) Ann. Mo. Bot. Gard. 5: 195. 1918.

Craterellus cornucopioides (L.) Pers.—“Note 862. The common *Craterellus cornucopioides* is usually so regular and cup shaped that we were somewhat surprised to receive a collection lobed and almost divided at the base, from Mr. Latham. We supposed that it had been torn accidentally but Mr. Latham stated that it grew naturally in this way and he found a large colony of this form.” Dr. Lloyd's Mycol. Notes 63: 965. May 1920.

Cyphella muscigena (Pers.) Fr.—*Thuidium paludosum* has been found “only in one locality, a blackish meadow in Orient. It is common there, but rarely fruiting. It is a frequent host of *Cyphella* in this plot. There are several other species of musci associated with the *Thuidium*. It is interesting that the fungus should go commonly to this single species and not at all to the others.” Bryol. 23: 7. Jan. 1920. Determined by Dr. Fairman.

Hymenochaete agglutinans Ellis—On *Sassafras*; determined by Prof. Dearness.

H. corrugata (Fr.) Lev.—Orient. No. 154. (In Mo. Bot. Gard. Herb., 44229.) Determined by Dr. E. A. Burt. Ann. Mo. Bot. Gard. 5: 361. 1918.

Thelephora multipartita Schw.—On earth in woods at Orient; determined by Dr. Lloyd: Mycol. Notes 63: 965. May 1920.

Thelephora spiculosa Fr.—On earth in dry woods at Cutchogue; determined by Dr. Lloyd who says “rare.”

Tremellodendron merismatoides (Schw.) Burt—On heavy soil in woods at Orient; determined by Dr. Lloyd.

HYDNACEAE

Hydnum caryophylleum B. & C.—On old wood of *Hicoria glabra* at Orient; determined by Prof. Dearness.

H. vellereum Pk.—In dry woods at Cutchogue. Dr. Lloyd says, “quite fragrant when received”: Mycol. Notes 63: 964. May 1920, as *Hydnum amicum* Quel.

H. zonatum of American Mycology—In dry woods on earth at Cutchogue. Determined by Dr. Lloyd: Mycol. Notes 63: 964. May 1920, as *Hydnum scrobiculatum* Fr.

Phlebia merismoides Fr.—Orient on *Prunus Avium*; determined by Dr. Lloyd (printed): Letter 69: 7. April 1919.

Radulum pallidum B. & C.—On underside of a decayed log of *Pinus Strobus* in a swamp at Greenport; determined by Dr. Lloyd (printed): Letter 69: 7. April 1919.

POLYPORACEAE

Daedalea ochracea Lloyd—On oaks at Cutchogue; determined by Dr. Lloyd: Mycol. Notes 63: 964. May 1920. Under Note No. 137, Dr. Lloyd says, "I would designate the light colored forms of *Daedalea unicolor* . . . which correspond to *Polystictus ochraceus* as forms of *Polystictus hirsutus*."

Merulius bellus B. & C.—Orient, "comm. by N. Y. State Herb., P66 (in Mo. Bot. Gard. Herb., 43604)." Ann. Mo. Bot. Gard. 4: 332. Nov. 1917.

Merulius brassicaefolius Schw.—On earth in a cellar at Orient; determined by Dr. Lloyd.

Polyporus brumalis (Pers.) Fr.—Greenport on *Vaccinium*; Orient on wild cherry; and Southold on *Sambucus canadensis*.

P. (Ganoderma) Curtisii Berk.—On trunks of living apple tree. Determined by Dr. Lloyd who says, "this is a southern unvarnished form of *Polyporus lucidus*, it is quite common in the south, but rarely found as far north as with you" (printed): Letter 67: 7. July 1918. Previously reported as *Ganoderma pseudoboletus* (Jacq.) Murrill.

P. pocula (Schw.) B. & C.—Orient on living bark of *Quercus velutina* at Orient. Found growing in clusters in April. Determined by Dr. Lloyd who says, "a unique little species": Mycol. Notes 63, 965. May 1920.

P. stipticus (Pers.) Fr.—On wood of *Quercus velutina* at Orient; determined by Dr. Lloyd (printed): Letter 66: 4. Oct. 1917.

P. trabeus Rostk.—On wood of *Quercus velutina* at Orient; determined by Dr. Lloyd (printed): Letter 67: 7. July 1918.

Polystictus dependens B. & C.—On the underside of a log of *Pinus rigida* at Cutchogue. September. No. 2080. A colony of about a dozen plants ranging from $\frac{1}{4}$ to $\frac{3}{4}$ of an inch in diameter. "Note 861. A rare species (Cfr. Stip. Polyporoids, p. 165) only known from a few stations in the south. This is the only collection in any way northern. Otherwise it is only known from one collection from Japan": Dr. Lloyd's Mycol. Notes 63: 965. May 1920.

Polystictus hirsutus (Wulf.) Fr.—The form *Polystictus hirsutulus* Schw. on *Quercus velutina* at Orient; determined by Dr. Lloyd (printed): Letter 69: 7. April 1919.

Poria omoema Berk.—On limbs of *Betula populifolia* at Orient; determined by Prof. Dearness who says a similar plant was named this species for him by Mr. Ellis. The type of this species was collected on pine in South Carolina by Mr. Ravenel. (= *Poria subacida* (Pk.) Sacc.)

AGARICACEAE

Crepidotus applanatus (Pers.) Fr.—Orient on trunks of *Quercus velutina*; determined by Dr. Lloyd (printed): Letter 67: 7. July 1918.

- Lenzites albida* Fr.—On trunk of *Acer rubrum* at Greenport; determined by Dr. Lloyd who says, "the old, bleached white, wintered, lenzitoid form of *Daedalea confragosa*."
- L. corrugata* Klotsch.—Orient on oaks and *Sassafras*; determined by Dr. Lloyd (printed): Letter 69: 7. April 1919.
- Panus strigosus* B. & C.—Formerly reported from Orient as *Panus levis* Berk. The Orient plant is figured in Dr. Lloyd's Mycol. Notes 52: 746. fig. 1120. Dec. 1917.
- Pleurotus niger* Schw.—On terminal branches of *Rhus copallina* at Orient. Plants $\frac{1}{8}$ of an inch in diameter and slaty black. Dr. Lloyd says it is rare (printed): Letter 69: 7. April 1919.
- P. sapidus* Klachb.—On stumps of *Hicoria glabra* at Orient; determined by Dr. Lloyd (printed): Letter 69: 7. April 1919, and Mycol. Notes 63: 965. May 1920.

GASTEROMYCETES

- Calvatia lilicina* Berk.—On earth in rich woods at Orient; determined by Dr. Lloyd: Mycol. Notes 63: 965. May 1920.
- Dictyophora duplicata* (Bosc) Ed. Fisch.—On earth in moist woods at Cutchogue, Orient and Southold; determined by Dr. Lloyd as *Phallus duplicatus*: Mycol. Notes 63: 964. May 1920.
- Lycoperdon gemmatum* Batsch.—On pure sand at Orient; determined by Dr. Lloyd.
- Scleroderma Cepa* Pers.—On pure sand in shade of pines and open ground at Southold; determined by Dr. Lloyd: Mycol. Notes 63: 964. May 1920.

MUSCI

- Amblystegium varium* (Hedw.) Lindb.—Orient at the base of a hickory tree about a moist cavity; determined by Mr. G. B. Kaiser.
- Fontinalis gigantea* Sulliv.—Swamp woods in water at Mattituck; determined by Dr. A. J. Grout. No. 1736.
- Mnium cinclidioides* Hüben.—In a swamp at Mattituck. No. 1843. Determined by Dr. Grout who says, "a depauperate form . . . the first to be reported from Long Island so far as I know, although it apparently is frequent along the west bank of the Hudson river."

POLYPODIACEAE

- Adiantum pedatum* L.—Southold, localized in moist woods south of Great Pond. The reference to this species in the first part of this Flora was an error: the above record is the only known station in the town. It was first discovered many years ago by Miss Mary H. Huntting and reported by Mrs. Frank D. Smith.
- Polypodium vulgare* L.—Sandy soil at Orient. No. 2331.
- Polystichum acrostichoides* (Mx.) Schott—Rare in woods south of Great Pond, Southold, Sept. 10, 1919. No. 4088.

LYCOPODIACEAE

Lycopodium adpressum (Chapm.) Lloyd & Underw.—Southold in a sandy bog.
No. 3455.

L. obscurum L.—Moist woods at Orient and Southold.

(To be continued)

NEW COMBINATIONS FOR PHANEROGAMIC NAMES

By J. C. ARTHUR

In order to secure uniformity in citing the names of hosts for species of Uredinales the following new combinations are proposed. So far as the writer can ascertain these combinations have not been made before, and in coming to this conclusion he has had the kindly assistance of a number of correspondents.

Cnidoscolus urens (L.) comb. nov. (*Jatropha urens* L. Sp. Pl. 1007. 1753). A common plant of tropical America, bearing *Uromyces oaxacanus* Diet. & Holw.

Adenoropium angustifolium (Griseb.) comb. nov. (*Jatropha angustifolia* Griseb.; Goett. Nachr. 171. 1865). A Cuban species bearing the imperfectly known rust *Uredo jatrophiicola* Arth.

Vincetoxicum bifidum (Hemsl.) comb. nov. (*Gonolobus bifidus* Hemsl., Biol. Centr. Am. Bot. 2: 330. 1879).

Vincetoxicum erianthum (Decaisne) comb. nov. (*Gonolobus erianthus* Decaisne; DC. Prodr. 8: 592. 1844).

Vincetoxicum uniflorum (H.B.K.) comb. nov. (*Gonolobus uniflorus* H.B.K. Nov. Gen. Sp. 3: 207. 1818). These three Mexican species of *Vincetoxicum*, belonging to the Asclepiadaceae, bear the very common tropical rust *Puccinia obliqua* Berk. & Curt.

Sphaeralcea arcuata (Greene) comb. nov. (*Malvastrum arcuatum* Robinson; A. Gray, Synop. Fl. N. Am. 1¹: 311. 1878).

Sphaeralcea fasciculata (Nutt.) comb. nov. (*Malva fasciculata* Nutt.; T. & G. Flora N. Am. 1: 225. 1838). These two Californian species belonging to Malvaceae bear the common western rust *Puccinia Sherardiana* Körn.